

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
**WO 2005/012560 A1**

(51) International Patent Classification: C12Q 1/68,  
G01N 33/50, 33/68

(21) International Application Number:  
PCT/CA2004/001413

(22) International Filing Date: 28 July 2004 (28.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/490,535 29 July 2003 (29.07.2003) US

(71) Applicant (for all designated States except US): UNI-  
VERSITÉ LAVAL [CA/CA]; Cité Universitaire, Québec,  
Québec G1K 7P4 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PÉRUSSE, Louis  
[CA/CA]; 1579 du Parc Beauvoir, Sillery, Québec G1T  
2M5 (CA). BOUCHARD, Luigi [CA/CA]; 880 Richelieu,  
Québec, Québec G1R 1K9 (CA).

(74) Agent: OGILVY RENAULT; Suite 1600, 1981 McGill  
College Avenue, Montreal, Québec H3A 2Y3 (CA).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: OBESITY MARKERS AND USES THEREOF

(57) Abstract: The present invention relates to a method for identification of a nucleotide substitution in the gene encoding for the neuromedin- or quantifying its levels of mRNA, to allow the determination of the susceptibility or predisposition of a patient to obesity, or to disinhibition or susceptibility to hunger. Determination of the susceptibility or predisposition to obesity or to hunger disinhibition can alternatively be determined by the identification of an amino acid.

WO 2005/012560 A1